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Student Name: _____



Missouri

DEPARTMENT OF ELEMENTARY & SECONDARY

EDUCATION™

End-of-Course Assessment

Algebra I



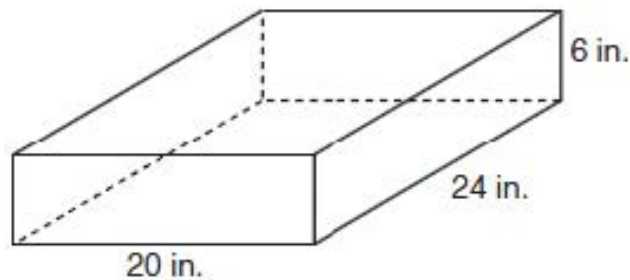
**Algebra 1 Pre-Test
Performance Task**

A shipping company charges \$1.20 times the sum, s , of the length, width, and height of a package to be shipped. All dimensions are measured in inches. The company also charges \$3.00 for processing the package to be shipped.

- On the line below, write an equation that the shipping company can use for determining the cost, C , for shipping any package.

Equation: _____

- Joe is planning to ship the package shown below to his grandmother. Determine how much Joe will have to pay to ship the package. Show your work in the box below.



Shipping Cost = \$_____

- Design another box that Joe could use that would cost less than \$60.00 to ship and would have the same volume as the box shown above. If each dimension must be a whole number, what are the dimensions of the new box?

$l =$ _____ in.

$w =$ _____ in.

$h =$ _____ in.